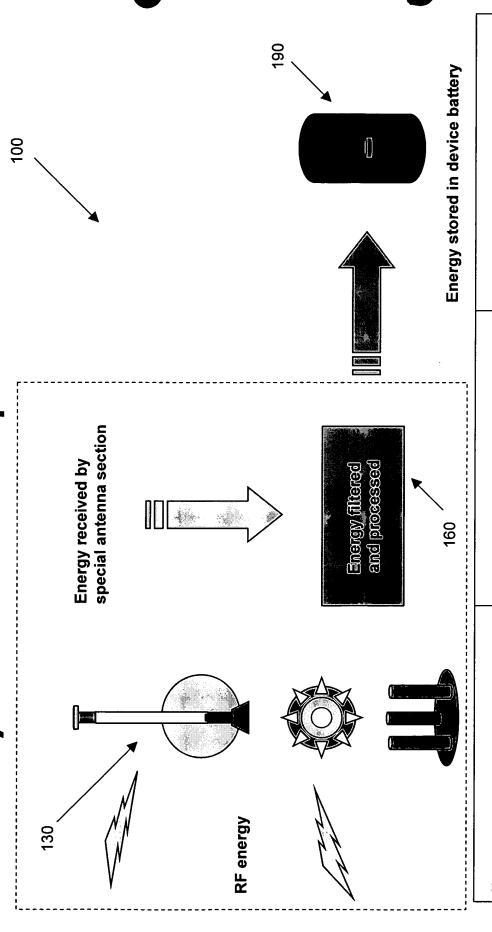


### ERS System Concept



Energy Storage Subsystem (ESS) Energy Harvesting Subsystem (EHS) | Energy Conversion Subsystem (ECS)

ENERGY RECLAMATION SYSTEM (ERS)

Fig. 4

#### Antenna Design

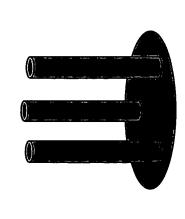


Fig. 5A

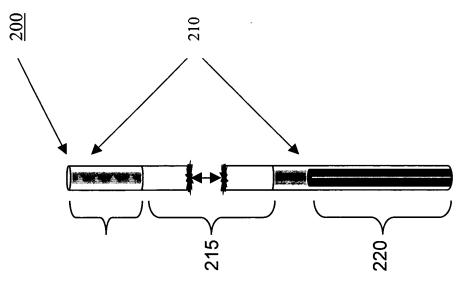


Fig. 5B

### Alternate Antenna Design

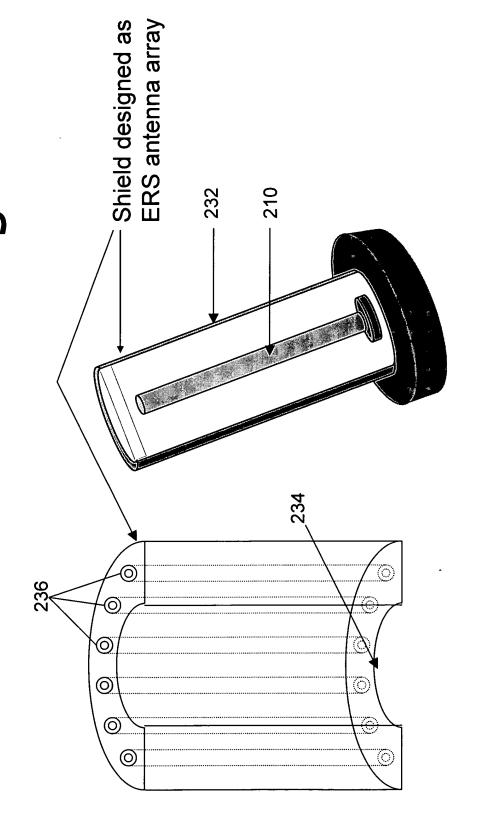


Fig. 6

# **Energy Harvesting for Wireless Devices**

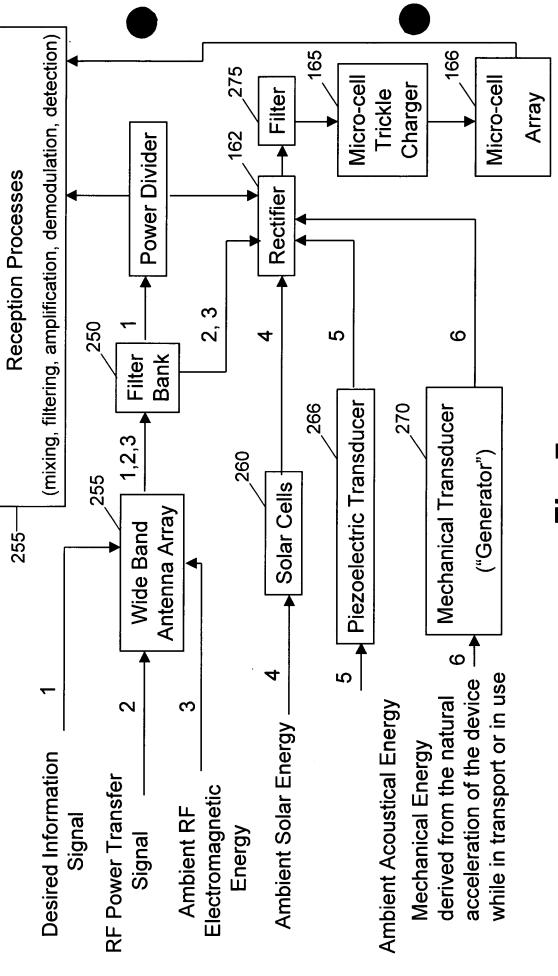
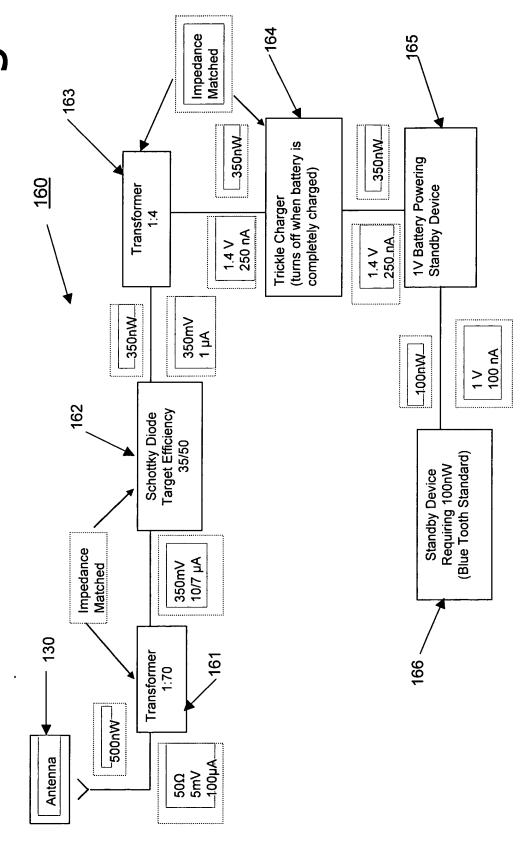


Fig. 7

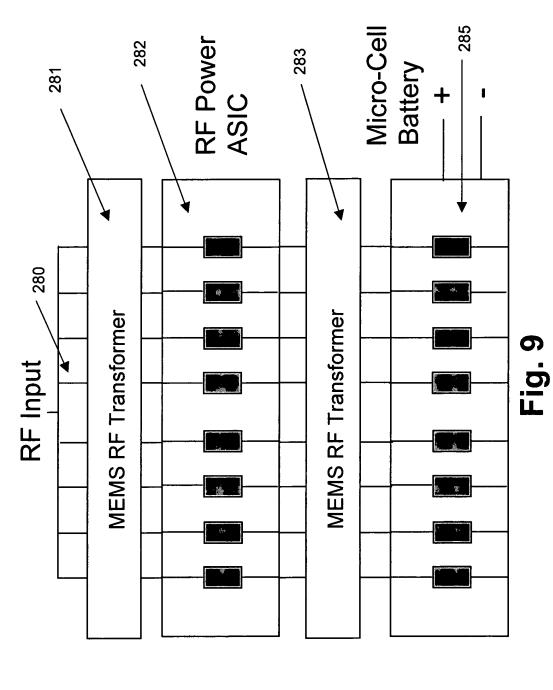
## RF to DC Power Conversion Design



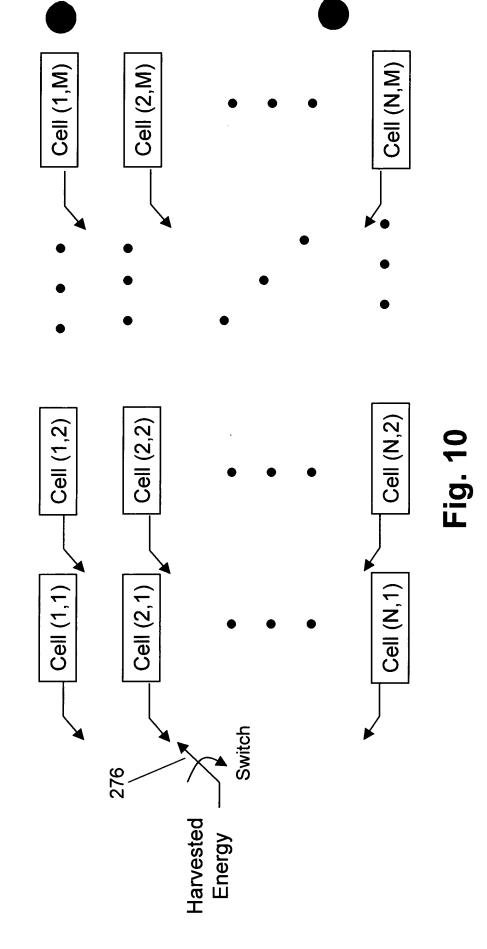
**;** 

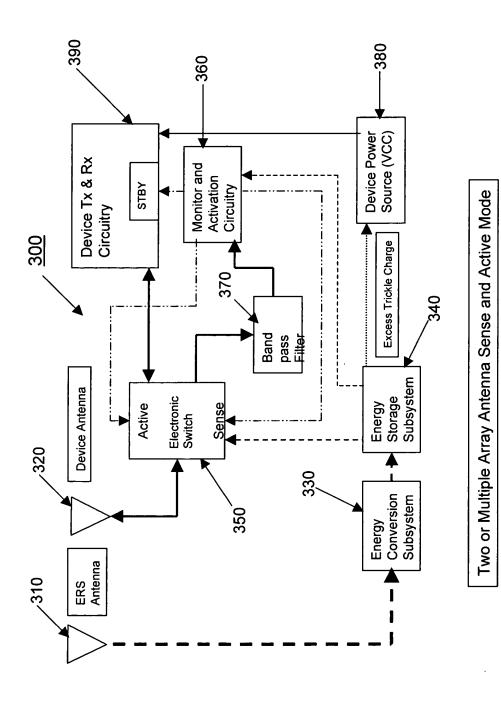
Fig. 8

#### Charge/Power Storage Design Concept RF to DC Power Conversion/Trickle



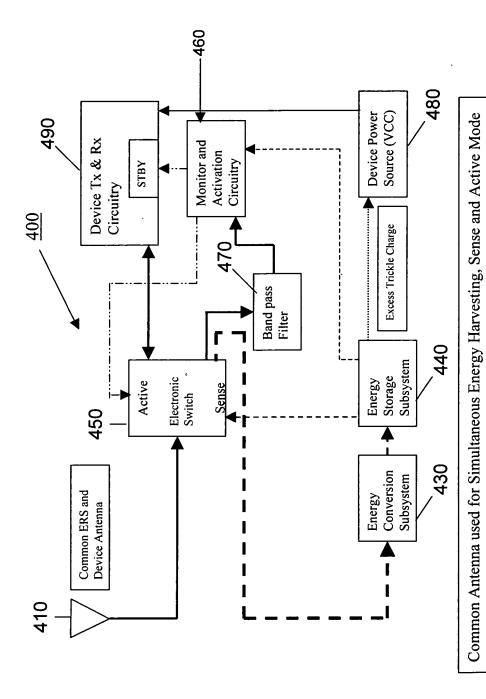
## Battery Micro-cell Charging (Trickle Charge)





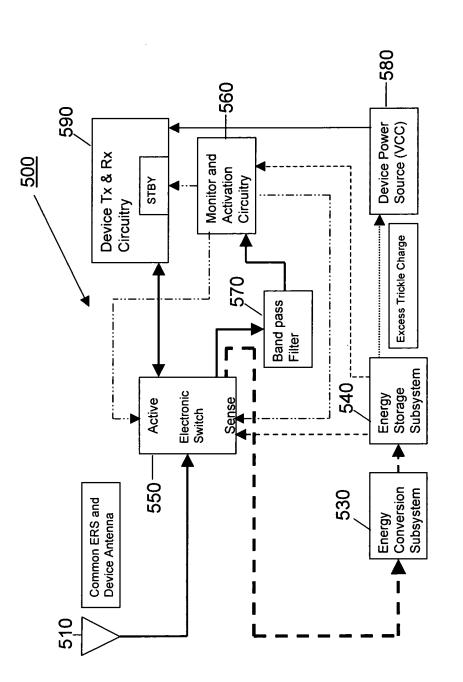
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Fig. 11



. . .

Fig. 12



1. 10 pt 1/2

Fig. 13

Common Antenna Sense and Active Mode